

Environmental Restoration Contract

Monthly Performance Report

December 2004

Accelerating Cleanup ...



Completion of ERDF Cells 5 and 6 brings the total capacity to 8 million tons; over five million tons have been disposed into the facility to date. Early completion of the expansion project was necessitated by accelerated cleanup progress.



Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor



CH2MHILL Hanford Inc.



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ENVIRONMENTAL RESTORATION EXECUTIVE SUMMARY

December 2004 Monthly Report

SAFETY:

As of December 31, 2004, the ERC worked approximately 197,000 hours since the last lost workday incident, which occurred on July 30, 2004 and became lost away on October 27, 2004. The ERC has experienced 92% injury-free workdays during FY05 and 94% injury-free workdays for December 2004.
FYTD: 6 first aids; 2 lost restricted
Current Month: 2 first aids.

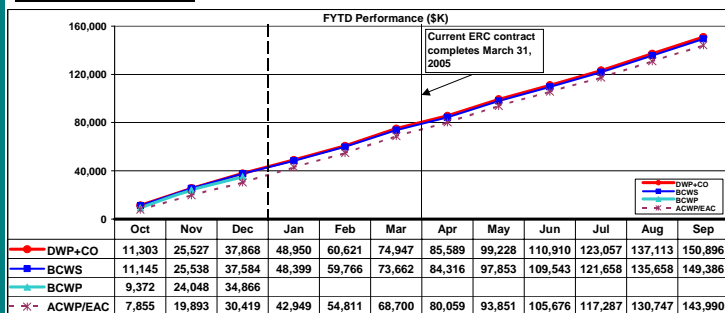
HIGHLIGHTS:

- Completed H Reactor safe storage enclosure (SSE) roof design drawings.
- Initiated isolation/removal of 107-N Tank T-4.
- Completed IH baseline for all ERC buildings in the 300 Area.
- Initiated backfill of 116-K-1 Crib.
- Completed backfill of 116-N-3 Crib, Trench, and pipelines; hauled and placed 226,000 cubic yards of fill material and constructed ten Mooli-Mooli mounds.
- Completed 100-H Area geophysics data collection and evaluation activities.
- Received RL approval of a Justification for Continued Operation and disposed of 67 waste containers that had been on hold.
- Received ERDF Cells 5/6 operation certification.
- Dispositioned public comments for the 100/300 Area risk assessment DQO Executive Summary.
- Provided 100-B/C Orphan Site presentation to the regulators.
- Completed 300-FF-1 Orphan Site field walkdowns.
- Signed the Hanford Square IV lease.

UPCOMING KEY ACTIVITIES:

- Complete H Reactor backfill/regrade and demobilize.
- Award 184-N Power House asbestos removal contract.
- Initiate asbestos removal in 313 building - January.
- Issue RFP for 100-F Burial Grounds and Remaining Sites remediation.
- Award 118-K-1 Burial Ground remediation subcontract in January.
- Obtain additional IP-1/IP-2 waste containers and lease trucks.
- Hold workshop to begin discussions on the role of the RL Configuration Management Group (CMG) and proposed realignment of schedules for risk assessment efforts across the Hanford Site.
- Resolve RL comments and finalize the River Corridor Closure Contract Transition Plan by January 21, 2005.

PERFORMANCE:



- SV:** (\$2,718K); (7.2%). ERDF delays in tonnage shipments; delays in 118-B-1 and 118-C-1 BG due to work suspension; K Area pipeline remediation delayed due to difficult concrete block excavation; 100-FR revegetation delayed to be combined with 100-N; F Area pipeline sampling awaiting equipment receipt; partially offset by 300-FF-2 remediation acceleration.

- CV:** \$4,447K; 12.8%. 100-B/C RPAS labor and subcontractor underruns; reduced excavation and sampling efforts at 300-FF-2 East Side remediation; 116-C-3 analytical and F Area sampling efficiencies; FY04 final fee determination less than available fee, and reduced estimate of retiree medical costs.

EAC TRENDS:

Current Month: (\$1,820K)

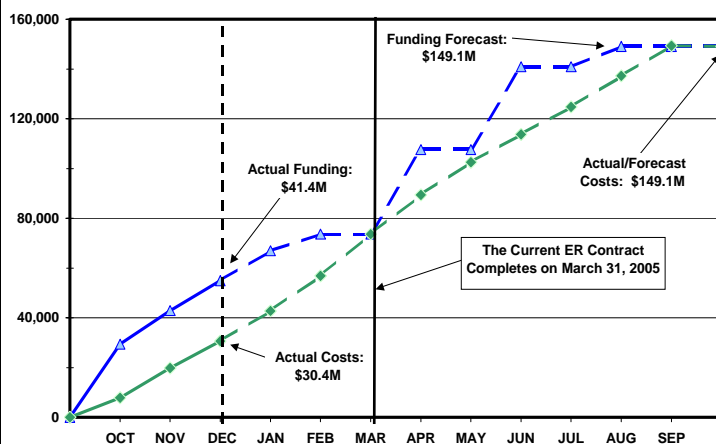
FYTD: (\$5,396K)

- RPAS subcontract performance better than DWP.
- 300 Area remediation staffing efficiencies.
- FY04 fee forecast reduction.
- Legacy retiree medical cost less than planned.
- 300 Area EE/CA resources and mob/deactivation less than planned.
- H Reactor gas wing demolition/loadout more than planned.

TPA MILESTONES:

- M-93-24, Submit EE/CA for N Reactor ISS (due 09/30/06); completed 10/14/04, nearly two years ahead of schedule.
- M-16-48, Initiate Remedial Actions for Remaining Waste Sites for 100-F Area (due 7/31/05); forecast on schedule.
- C-16-06B, Submit Engineering Evaluation of Final Disposition of River Pipelines and Outfall Structures to Regulators (due 7/31/05); forecast on schedule.
- C-16-06A, Submit B/C Risk Assessment Pilot Study to Regulators (due 07/31/05); forecast on schedule.
- M-93-25, Submit an Engineering Evaluation of Final Surplus Reactor Disposition to Regulators (due 09/30/05); forecast 03/15/05.
- M-93-18, Complete H Reactor ISS (due 12/31/05); forecast 9/30/05.

FUNDING:



PERFORMANCE INCENTIVES:

ISSUES:

- Issue:** ER contract requires DOE to issue approved fee plan prior to fiscal year start; this has not occurred.
Concern: BHI needs approved fee plan to ensure DOE's expectations are being met. BHI currently working to draft fee plan.
Action: DOE to expedite issuance of approved fee plan.

ENVIRONMENTAL RESTORATION FACILITIES DECOMMISSIONING PROJECT

December 2004 Monthly Report

SAFETY:

- FYTD: 3 first aids; 0 recordable-only; 1 lost restricted; 0 lost workday cases; 0 skin contaminations
- Current Month: 1 first aid (irritation)

HIGHLIGHTS:

H Reactor ISS:

- Completed SSE roof design drawings.
- Continued backfill of Areas 1, 4, and 5.

190-DR:

- Completed 190-DR demolition preparations.
- Dewatered 190-DR basement/sumps.
- Removed 75% of D Area decon soil stockpile.

100-N Area:

- Initiated isolation/removal of 107-N Tank T-4.

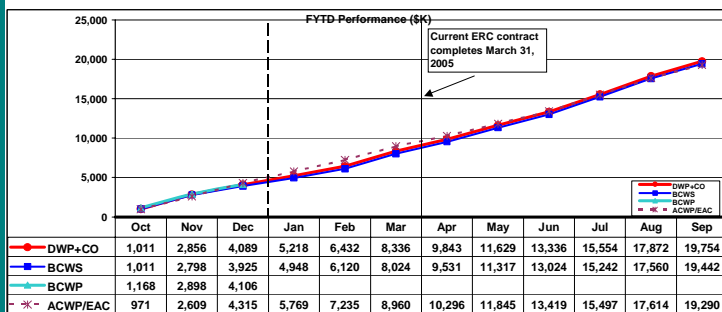
300 Area:

- Issued Action Memo, SAP, and RAWP for 313 Building to RL and regulators for review/comment.
- Completed IH baseline for all ERC buildings in the 300 Area.
- Finalized cost estimate for demolition of the 313 Building.
- Relocated field personnel to 3746 Building in preparation for the 313 Building demolition.

UPCOMING KEY ACTIVITIES:

- Complete H Reactor backfill (done 1/12/05), demobilize (in progress), and regrade (estimate 1/31/05).
- Demolish 190-DR valve housing; collect concrete samples - January.
- Award 184-N Power House asbestos removal contract (estimate 1/25/05).
- Close out contract for 1802-N steam line - January.
- Initiate asbestos removal in 313 Building (in progress).
- Remove Tank T-4 in 107-N.
- Regulator approval of 300 Area RAWP and Action Memo.

PERFORMANCE:



- SV:** \$181K; 4.6%. 190-DR demolition preparation and 300 Area facility characterization ahead of schedule; partially offset by 107-N sampling delays due to concerns of gaining building access.
- CV:** (\$209K); (5.1%). Additional resources required for H Reactor gas wing and pourback demolition/loadout, and additional thermal analysis required; settlement of D Reactor SSE FY04 claim; partially offset by 300 Area characterization acceleration, and less 107-N sampling and resources required than planned.

EAC TRENDS:

Current Month: (\$476K)

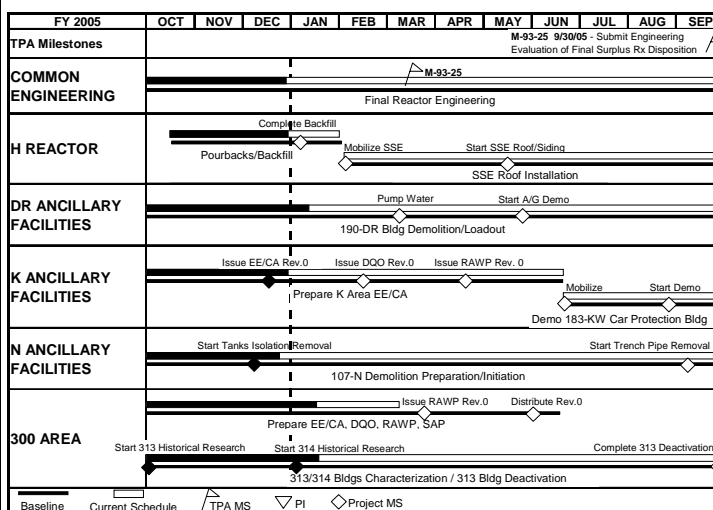
FYTD: (\$151K)

- 300 Area EE/CA resources and mob/deactivation less than planned.
- H Reactor gas wing demolition/loadout resources more than planned.
- Settlement of D Reactor SSE FY04 claim.

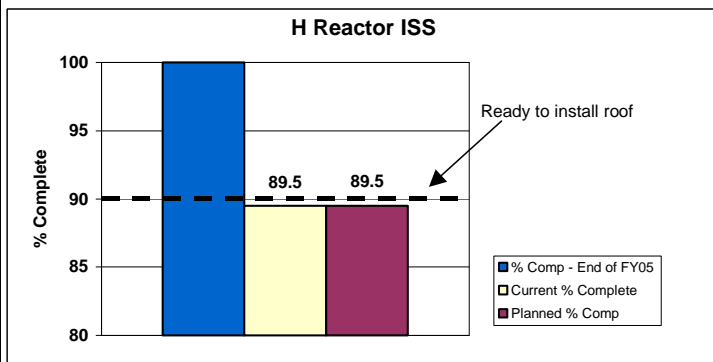
TPA MILESTONES:

- M-93-24, Submit EE/CA for N Reactor ISS (due 09/30/06); *completed 10/14/04, nearly two years ahead of schedule.*
- M-93-25, Submit an Engineering Evaluation of Final Surplus Reactor Disposition to Regulators (due 09/30/05); *forecast 03/15/05.*
- M-93-18, Complete H Reactor ISS (due 12/31/05); *forecast 9/30/05.*

SUMMARY SCHEDULE:



ISS METRIC:



ISSUES:

107-N ion exchanger sample results required Authorization Basis MOC review (potential TRU).

ENVIRONMENTAL RESTORATION REMEDIAL ACTION PROJECT

December 2004 Monthly Report

SAFETY:

FYTD: 1 first aid; 0 recordable; 0 lost workday cases
Current Month: N/A

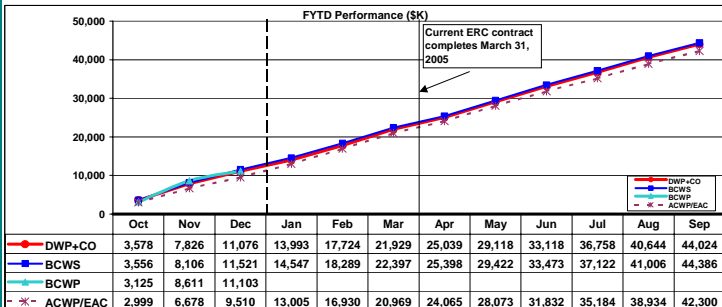
HIGHLIGHTS:

- Completed remediation activities at the 118-B-6 Tritium Vaults.
- Completed concrete demolition of underground structures at 126-B-3.
- Received safety evaluation report from RL allowing transportation and disposal of containers from 118-B-1 and 118-C-1, and transported suspended ERDF containers from queue to ERDF.
- Continued excavation and loadout of soil and concrete from the 100-C-9 Box Culvert site.
- Initiated overburden removal of south 100-C-9 and 100-C-7 waste sites.
- Continued remediation of the 100-K effluent pipelines and 116-K-2 Mile Long Trench.
- Initiated backfill of 116-K-1 Crib.
- Initiated closeout sampling associated with the 100-KW pipelines and 116-KE-4 Retention Basin.
- Completed backfill of 116-N-3 Crib, Trench, and pipelines; hauled and placed 226,000 cubic yards of fill material and constructed ten Mooli-Mooli mounds.
- Continued excavation of the 116-N-1 Crib.
- Completed loadout at the 300-18 Surface Contaminated Area.
- Continued loadout of waste from 600-47 Dumping Area and the 300-8 Aluminum Shavings Area.
- Continued loadout of waste to ERDF from 618-3 Burial Ground until December 14, at which time all burial ground sites were shut down to review Authorization Basis issues.
- Completed sampling of the 116-C-3 Chemical Tanks.
- Completed preparation of 100-F Area Remaining Sites sample plans.
- Completed supplemental risk assessment work for river pipelines EE/CA.
- Completed 100-H Area geophysics data collection and evaluation activities.

UPCOMING KEY ACTIVITIES:

- Restart remediation activities at 118-B-1 and 118-C-1 Burial Grounds.
- Issue RFP for 100-F Burial Grounds and Remaining Sites remediation.
- Award 118-K-1 Burial Ground subcontract in January.
- Complete sample plan development for the 300-7 and 300-9 candidate waste sites.
- Develop 300 Area path forward to revise the Authorization Basis to obtain approval to resume operations.
- Complete 116-N-3 RCRA Certification of Closure.
- Complete sampling at F Area.
- Start design for D Area Burial Grounds, failed RTD sites, and remaining sites.

PERFORMANCE:



- SV:** (\$418K); (3.6%). Delays in 118-B-1 and 118-C-1 Burial Grounds due to suspension of work; delays in K Area pipeline remediation due to difficult excavation of concrete blocks; 100-FR revegetation delay to combine with 100-N revegetation to optimize resources; delays in F Area pipeline sampling pending receipt of larger piece of equipment; negative SV partially offset by 300-FF-2 remediation acceleration due to excavation and sampling efficiencies.
- CV:** \$1,594K; 14.4%. 100-B/C RPAS subcontractor performance better than DWP; BC/RPAS labor underruns - project not fully staffed; reduced excavation and sampling efforts at 300-FF-2 East Side remediation; 116-C-3 analytical and F Area sampling efficiencies.

EAC TRENDS:

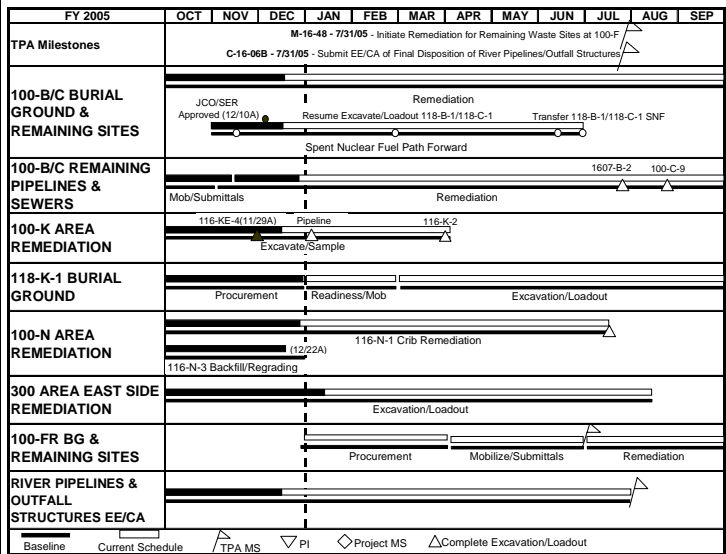
Current Month: \$35K
FYTD: (\$2,086K)

- RPAS subcontract performance forecasted better than DWP; subcontract and staffing efficiencies in 300 Area remediation; 116-C-3 field sampling and laboratory efficiencies; F Area sampling efficiencies.

TPA MILESTONES:

- M-16-48, Initiate Remedial Actions for Remaining Waste Sites for 100-F Area (due 7/31/05); *forecast on schedule*.
- C-16-06B, Submit Engineering Evaluation of Final Disposition of River Pipelines and Outfall Structures to Regulators (due 7/31/05); *forecast on schedule*. Tri-Parties currently reviewing an alternate path forward to document river pipeline decision.

SUMMARY SCHEDULE:



ISSUES:

- 300 Area anomalies.
- B/C Orphan Sites path forward.

ENVIRONMENTAL RESTORATION WASTE OPERATIONS PROJECT

December 2004 Monthly Report

SAFETY:

FYTD: 2 first aid; 2 lost restricted; 0 lost workday cases
Current Month: 1 first aid (abrasion/contusion)

Occurrence:

- Shuttle truck rolled into empty waste container (no personal injury) (RL-BHI-ERDF-2004-0013)

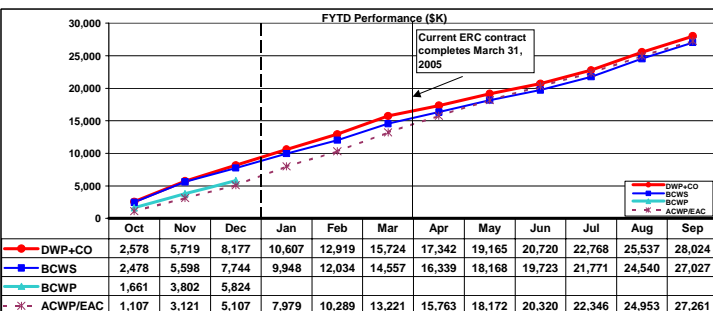
HIGHLIGHTS:

- Received 55,206 tons of waste at ERDF during December; 172,537 tons during FY05; 5,248,259 tons of contaminated material have been disposed in ERDF since operations began in July 1996.
- Treated 360 drums of 183-H precipitated crystals in December.
- Completed all preparatory work for construction of the 218-W-4C waste encapsulation vaults. Submitted Management of Change documentation for this new waste stream to RL for approval.
- Continue to suspend all waste shipments from K-Basins SNF Project. Process to evaluate methodology to characterize canisters is underway. Resolution expected by February end as scheduled.
- Received a total of 15 new IP-2 roll-off containers and 4 new IP-1 containers at ERDF. Received two of six leased trucks to supplement waste transport fleet.**
- Received RL approval of a Justification for Continued Operation and disposed of 67 waste containers that had been on hold. This waste was from 100-B/C Burial Grounds where suspect fuel elements were discovered.
- Received operation certification of ERDF Cells 5/6; currently in process of transition to the disposal subcontractor for operations.
- Reviewed and incorporated Hanford contractor comments into the "Proposed Plan for an Amendment to the ERDF Record of Decision (ROD)".**
- Initiated preparation of the ERDF biennial leachate waste stream evaluation and confirmatory leachate sampling in accordance with the 1999 ERDF ROD amendment.

UPCOMING KEY ACTIVITIES:

- Receive, treat, and dispose of low-level fraction of waste from FH's TRU Retrieval Project. Initial waste receipts are now scheduled for February.
- Receive additional IP-2 roll-off containers (15 of 30 remaining).
- Receive additional IP-1 roll-off containers (76 of 80 remaining).
- Receive additional leased trucks to augment the waste transportation fleet and meet high waste shipment demands of the coming months (4 of 6 remaining).
- Commence transport of waste from 100-B/C to ERDF using dump trucks with trailers. Waste will be deposited into the new Cells 5/6.
- Issue advance 30-day public review notice in January to seek comments on the "Proposed Plan for an Amendment to ERDF ROD".

PERFORMANCE:



- SV:** (\$1,920K); (24.8%). ERDF delays in tonnage shipments; additional office space installation; and mercury treatment on hold at 100-B/C.
- CV:** \$718K; 12.3%. Labor underruns in transportation/disposal and direct project support.

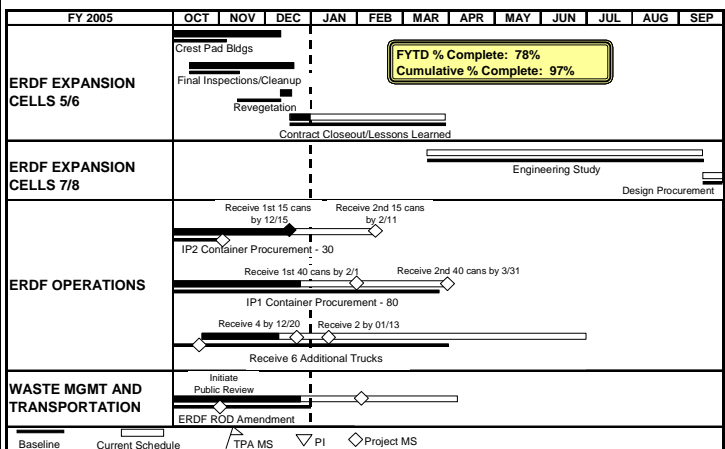
EAC TRENDS:

Current Month: (\$199K)

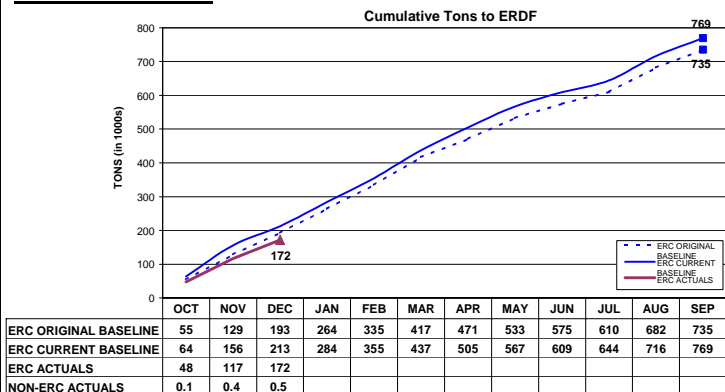
FYTD: \$234K

- Unsettled subcontractor claims for ERDF expansion.
- Increase in drivers for ERDF operations/transportation.

SUMMARY SCHEDULE:



ERDF TONNAGE:



ISSUES:

- Recovery of tonnage to ERDF.
- Weather impacts in January are significant.

ENVIRONMENTAL RESTORATION RISK ASSESSMENT AND SITE CLOSURE PROJECT

December 2004 Monthly Report

SAFETY:

No first aid, recordable, or lost workday cases experienced FYTD.

HIGHLIGHTS:

100-B/C Pilot:

- Completed 100-B/C Pilot sampling data draft summary report for internal review.

100/300 Area:

- Received and dispositioned public comments on the DQO Executive Summary.
- Completed draft Sampling and Analysis Instruction (SAI) for Tribal plant sampling in support of Tribal scenarios.
- Initiated Sampling and Analysis Plan (SAP) for FY2006 sampling.
- Sent three human-use risk assessment scenarios - Rural Residential, Industrial Worker, and National Monumental Refugee Worker - to RL for review.

Columbia River Component:

- Held Existing Data Compilation and Evaluation Guidance Workshop on December 13-14. Purpose of the workshop was to develop, in a public forum, the methods that will be used to acquire and validate existing data that will support the risk assessment.
- Submitted Communication Plans (Rev. 0) to RL for transmittal to regulators, Tribes, Trustees, and HAB.
- Conducted monthly meeting of Hanford Site Risk Assessment Integration Working Group to complete compilation of existing scopes and schedules.
- Submitted annotated outline of the Risk Assessment Work Plan to RL, regulators, Tribes, Trustees, and HAB for review.

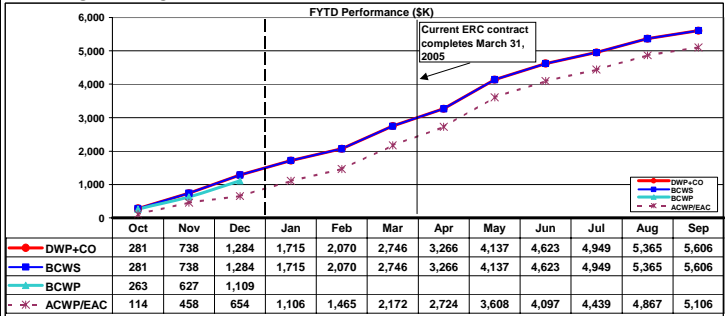
Closure Activities:

- Provided 100-B/C Orphan Site presentation to the regulators at the 100 Area Unit Managers Meeting on December 9.
- Completed 300-FF-1 Orphan Site task field walkdowns.
- Provided historical reference support to the 300 Area RA Project for 618-2 and 618-3 Burial Grounds.
- Met with EPA and RL on December 8 to discuss progress of the draft 300-FF-1 Remedial Action report.

UPCOMING KEY ACTIVITIES:

- Incorporate the 100-B/C Pilot sampling data draft summary report as an appendix in the 100-B/C Pilot Risk Assessment report.
- Submit draft SAI to RL and regulators for review.
- Conduct fourth of four DQO public meetings (January 6).
- Complete draft DQO Summary Report.
- Continue work on SAP for FY06 sampling.
- Send human-use scenarios to EPA for peer review and complete two additional human-use risk assessment scenarios for peer review.
- Hold workshop to begin discussions on the role of the RL Configuration Management Group (CMG) and proposed realignment of schedules for risk assessment efforts across the Hanford Site (January 19-20).
- Hold working meeting to conclude development of guidelines for compilation/evaluation of existing data on Hanford Site contaminants released to the Columbia River (January 24-25).
- Begin drafting chapters of the Risk Assessment Work Plan.
- Initiate seeding and replanting of 115 acres in 100-F and 30 acres in 100-N the first week in January.
- Complete historical reviews for the 300-FF-1 Orphan Sites evaluation.
- Complete 300-FF-1 Remedial Action draft report. Submit for internal review by January 28.

PERFORMANCE:



- SV:** (\$175K); (13.6%). Behind schedule on 100-B/C Pilot draft Risk Assessment Report development; behind schedule on procurement of universities to compile, review, and evaluate data associated with contaminant levels within or adjacent to Columbia River. Schedule is to be recovered by end of January.
- CV:** \$454K; 41.0%. Efficiencies realized in performing peer review of human scenarios, DQO development, and reconnaissance sampling. Efficiencies will result in a positive variance at completion.

EAC TRENDS:

Current Month: (\$241K)

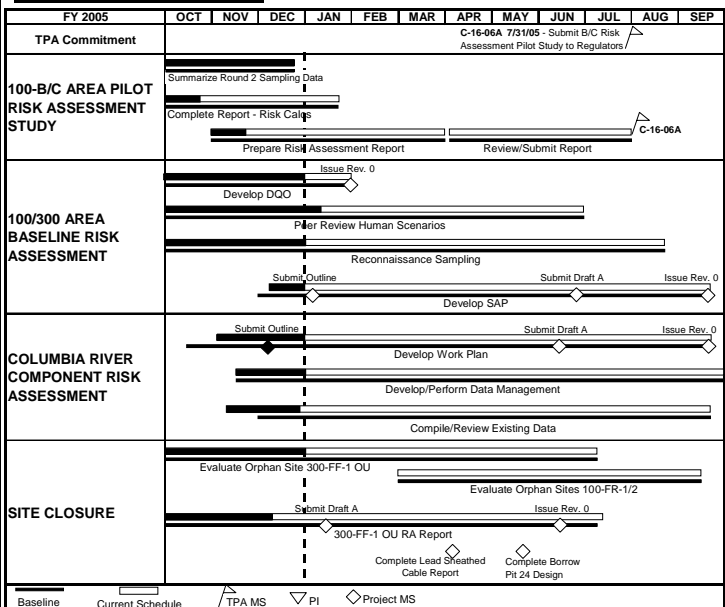
FYTD: (\$501K)

- Efficiencies realized in performing peer review of human scenarios, DQO development, and reconnaissance sampling. Efficiencies will result in a positive variance at completion.

TPA MILESTONES:

C-16-06A, Submit B/C Risk Assessment Pilot Study to Regulators (due 07/31/05); *forecast on schedule*.

SUMMARY SCHEDULE:



ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION MISSION SUPPORT

December 2004 Monthly Report

SAFETY:

FYTD: 0 first aids; 0 recordable-only; 0 lost workday cases

HIGHLIGHTS:

Safety and Health:

- Completed the PPE determination/selection form to support the beryllium sampling plan for the 313 Building.
- Developed an accident investigation manual and presented to project personnel.
- Completed self assessments on safety and security associated with foreign nationals, and on Exhibit G compliance.
- Placed the IRD-2000 electronic dosimeter irradiator system in service (cost avoidance ~\$40K per year).

Technical Services:

- Submitted to RL the FY04 Value Management Report (identified potential savings of over \$3M).
- Submitted to RL the Quarterly RCRA Permit Modification Process for 300 Area Waste Acid Treatment System and Part A for this unit.
- Submitted to Fluor Hanford (FH) the ERC input for the Hanford Site Air Operating Permit Semi-Annual Report, the Annual Facility RCRA Non-Compliance Report, and the EPCRA Tier 2 Report.
- Completed an audit of the WSCF Laboratory; closed out all FY04 accruals for the commercial labs.
- Provided sample/data management support - collected 481 samples, issued 10 sample authorization forms (SAF), issued 13 sample disposition records (SDR), and validated 11 data packages.

Business Services:

- Issued the final updates to ERC Corrective Action Request and Root Cause Analysis procedures for internal review/comment.
- Prepared final regulatory review report for records from recently transferred 300 Area facilities.
- Issued summary report to RL on self assessment results of the processes used by the ERC for oversight of subcontractors.
- Working with HAMTC regarding plant forces work review that is expected to be subcontracted at the 100-B/C Area.
- Entered 3,637 records into DARTS and scanned 3,512 records into DOCS Open.
- Processed 17 procedure updates/revision orders.
- Completed response to RL for actions from November records meeting.

Procurement:

- Received RL approval for BHI Procurement System for CY05.

UPCOMING KEY ACTIVITIES:

- Issue the updated ERC Corrective Action Request and Root Cause Analysis procedures - January.
- Issue Environmental Management Gap Analysis - January.
- Update Mission Support activities in the Post-Contract Closeout Plan - January.
- Complete the 2004 Annual Records Inventory & Disposition Schedules (RIDS) Campaign - January.
- Complete FY04 accruals for laboratory data validation - February.

ASSESSMENTS:

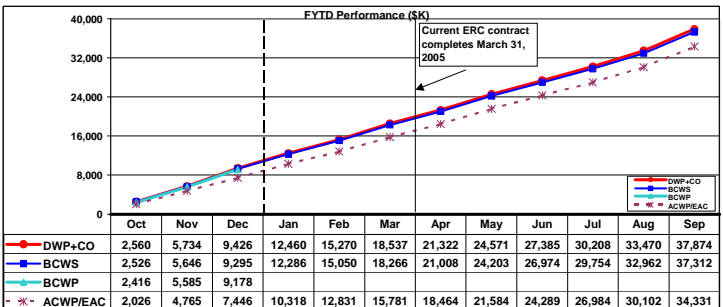
FY 2005 ERC Assessment Data						
Assessments	Oct	Nov	Dec	Jan	Feb	Mar
Scheduled	17	24	22	27	20	27
Scheduled / Performed	14	18	18			
Past Due Completed	4	0	5			
Unscheduled / Performed	3	5	5			
Total Performed	21	23	28			

Significant findings for this period:

- CAR 04-RC-15 - Correct radiological postings at ERDF.
- CAR 04-RC-16 - Add radiological postings at 100-B/C.
- CAR 04-RC-17 - Implementation deficiencies with Innov-X x-ray fluorescence analyzer (XRF)
- CAR 04-RC-18 - Failure to observe person exiting an RBA without performing a radiological survey.

Corrective actions are in progress.

PERFORMANCE:



- SV:** (\$117K); (1.3%). Several Waste Management and Transportation functional activities postponed due to more direct project support.

- CV:** \$1,731K; 18.9%

Safety and Health:

- Understaffed by four positions (one IH professional, one safety engineer, one task lead, and one administrative staff). Time phasing of other Hanford Site contractor work orders and equipment purchases.

Heavy Equipment:

- Unpaid purchases of material for equipment repairs and maintenance.

Other:

- FY04 final fee determination less than available fee.
- Received reduced estimate of retiree medical cost portion of total Site medical from the Site plan administrator.

EAC TRENDS:

Current Month: (\$760K)

FYTD: (\$2,981K)

- FY04 fee forecast reduction.
- Legacy retiree medical cost less than planned.

ISSUES:

None for this reporting period.

ENVIRONMENTAL RESTORATION GENERAL SUPPORT

December 2004 Monthly Report

SAFETY:

FYTD: 0 first aids; 0 recordable-only; 0 lost workday cases

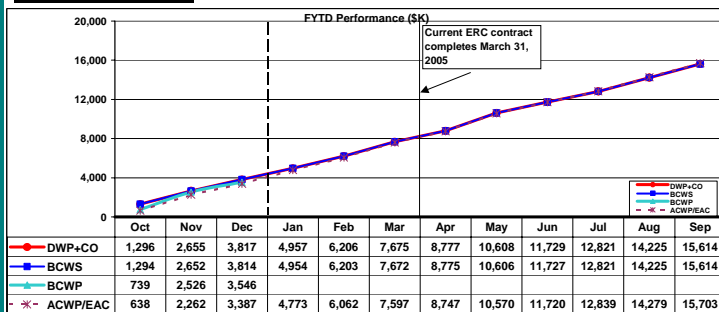
HIGHLIGHTS:

- Signed the lease for Hanford Square IV.
- Closed and submitted BHI Corporate financial books for 2004.
- Prepared the 3746 Building for Facilities Decommissioning occupancy by installing BLAN, telephones, furniture, stripping and waxing the file flooring, and repairing and cleaning the building.
- Rolled out the new Hanford Site commercial radio system to all ERC users.
- Completed the flat screen monitor replacements in Sigma 1, Hanford Square II, and Hanford Square III buildings.
- Completed Office 2003 database conversions and initial testing.
- Completed training for 50 employees for Beryllium Assigned Worker Training, and 13 completed Manager/Supervisor Safe & Drug Free Training.
- Completed a 2-day Contract/Subcontract Management (a.k.a. "Brown Book") training for 26 employees.

UPCOMING KEY ACTIVITIES:

- Resolve RL comments and finalize the *River Corridor Closure Contract Transition Plan*, by January 21, 2005.
- Movement of staff into Hanford Square IV.
- Complete IRS tax reporting information for all ERC employees.

PERFORMANCE:



- SV:** (\$269K); (7.0%). Lag in computer equipment purchases and postponement of server room move.

- CV:** \$159K; 4.5%

Office Services:

- Time phasing of equipment and material costs.

EAC TRENDS:

Current Month: (\$181K)

FYTD: \$88K

- Fixed negotiated rate applied to non-ERC work lower than planned.

CONTRACT METRIC:

	Goal	FYTD	Dec 04
Small Business	50.0%	65.8%	69.4%
Disadvantaged	6.5%	6.5%	18.0%
Woman-Owned	2.5%	3.0%	2.9%
Veteran-Owned	0.02%	0.83%	0.03%
SD Veteran-Owned	0.02%	0.08%	0.03%
Hubzone Certified	0.05%	0.16%	0.03%

Total P-Cards for December: \$ 290,694 (263 actions)

Total December Commitments: \$ 4,772,883 (304 actions)

Total FY05 Commitments: \$16,004,526

ISSUES:

None for this reporting period.



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GREEN TEXT = AHEAD OF SCHEDULE 4 WEEKS OR MORE
RED TEXT = BEHIND SCHEDULE 4 WEEKS OR MORE / TPA IMPACT